

Solvay Minerals, Inc.
Dispersion Model Information

AQD #	Name	Stack Height		Inside Diameter		Exit Temperature		Exit Velocity		Cal ACFM	DSCFM	Cld DSCFM	ACFM	Emissions Rate (g/s)				Emissions Rate (lb)	
		feet	meters	feet	meters	F	K	Ft/sec	m/s					PM10		NOx		PM10	
														Short	Long	Short	Long	Short	Long
68	Bagging Trona Silo	82	24.99	1667x0.97	0.37	68	293.2	77.00	23.47	5278	4140	4160.956716	5277	0.045	0.045			0.360	0.360
70	Bagging Sulfite Silo	82	24.99	6250x0.84	0.40	68	293.2	49.00	14.94	4031	3155	3170.590668	4021	0.034	0.034			0.270	0.270
71	Bagging MBS Silo	82	24.99	6250x0.84	0.40	68	293.2	49.00	14.94	4031	3155	3170.590668	4021	0.034	0.034			0.270	0.270
72	MBS Soda Ash Feed	60.67	18.49	0.6667	0.20	200	366.5	53.00	16.15	1111	611	690.38256	1100	0.014	0.014			0.110	0.110
73	MBS Dryer	95	28.96	2	0.61	90	305.4	56.00	17.07	10560	7000	7723.364177	10500	0.151	0.151	0.019	0.019	1.200	1.200
New expansion sources																			
74	North Headframe	105	32.00	1.33	0.41	60	288.7	59.68	18.19	5002	3989	4008.855545	5000	0.043	0.043			0.340	0.340
75	Primary Crushing	25	7.62	1.33	0.41	60	288.7	59.68	18.19	5002	3970	3989.85048	5000	0.043	0.043			0.340	0.340
76	Primary Screening	25	7.62	4.42	1.35	60	288.7	58.75	17.91	54027	43154	43369.88094	54000	0.466	0.466			3.700	3.700
77	Transfer BH 101	40	12.19	1.08	0.33	60	288.7	58.77	17.91	3251	2593	2605.756104	3250	0.028	0.028			0.220	0.220
78	Transfer BH 102	70	21.34	1.25	0.38	60	288.7	54.32	16.56	4001	3191	3207.084436	4000	0.034	0.034			0.270	0.270
79	Transfer Point	70	21.34	1.08	0.33	60	288.7	54.25	16.54	3002	2393	2405.313327	3000	0.026	0.026			0.210	0.210
80	Calciner #4 ESP	180	54.86	9.83	3.00	305	443.2	57.93	17.66	264086	92751	93213.89811	264000	1.503	1.503	2.520	2.520	11.930	11.930
81	Product Dryer Area BH	180	54.86	3.58	1.09	250	394.3	57.85	17.63	35018	20263	20363.7929	35000	0.219	0.219			1.740	1.740
82	Dryer #6 ESP	180	54.86	7.08	2.16	298	424.8	58.37	17.79	138056	47555	47792.86136	138000	0.514	0.514	3.780	3.780	4.080	4.080
83	Silo Top	130	39.62	1.42	0.43	200	366.5	56.03	17.08	5301	3350	3366.237822	5300	0.037	0.037			0.290	0.290
84	Silo Bottom	60	15.24	2.00	0.61	200	366.5	58.35	17.79	11003	6918	6952.187424	11000	0.074	0.074			0.590	0.590
85	Package Boiler Stack	140	42.67	3.00	0.91	325	436.9	50.00	15.24	21214	6918	5845.15121	11000	0.060	0.060	0.239	0.239	0.480	0.480
Non-permitted, odd-ball sources														3.048	0.000	6.539	0.000	24.190	0.000
MV	Mine Vent		0.00		0.00		255.4		0.00										
CTH	Cooling Tower High Flow	15	4.57		0.00	68	293.2		0.00					2.155	2.155			17.100	17.100
CTL	Cooling Tower Low Flow	15	4.57		0.00	68	293.2		0.00					0.790	0.790			6.270	6.270
FRP	Fire Pump	10	3.05	0.25	0.08	500	533.2		0.00				225	0.101	0.006	1.109	0.063	0.800	0.046
GND	C/S Generator	10	3.05	0.17	0.05	500	533.2		0.00				100	0.050	0.003	0.605	0.035	0.400	0.023
GNS	Steam Plant Generator	15	4.57	0.33	0.10	500	533.2		0.00				11400	0.907	0.052	13.104	0.748	7.200	0.411
PB	Pony Boiler	12	3.66	0.83	0.25	500	533.2		0.00				2500	0.050	0.003	0.504	0.029	0.400	0.028

10/24/10
25.62 0.07
2.45
0.84
12.25
0.50
3.45
0.41
Priv

see changes on
attached spreadsheet
for

1.08 ft 12 in 2.54 cm 100 mm
ft in mm

ft x 0.3048 = meters